



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CITY OF MADISON

NEW WATER LINES ON FIRST ST., DAHLEM'S NEIGHBORHOOD & ESPLANO DRIVE

SRF PROJECT DW08 10 39 02

DATE: January 6, 2009

TARGET PROJECT APPROVAL DATE: February 6, 2009

I. INTRODUCTION

The above entity has applied to the Drinking Water State Revolving Loan Fund (SRF) for a loan to finance all or part of the drinking water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Drinking Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Max Henschen
Senior Environmental Manager
State Revolving Fund -- IGCN 1275
100 N. Senate Ave.
Indianapolis, IN 46204
317-232-8623

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:	City of Madison Water Line Installation 101 West Main Street Madison, IN. 47250
SRF Project Number:	DW 08 10 39 02
Authorized Representative:	Tim Armstrong, Mayor

II. PROJECT LOCATION

Madison is located in the south east portion of the state along the Ohio River, east of Scottsburg, Indiana and southeast of North Vernon, in the south central portion of Jefferson County in Madison Township. See Figure 1.

The First Street water main project is within the city limits on First Street in downtown Madison in the NE $\frac{1}{4}$ of Section 3, T3N, R10E and the NW $\frac{1}{4}$ of Section 2, T3N, R10E, of the Madison West USGS Quadrangle; see Figure 2A.

The Dahlem's Neighborhood water main project is within the city limits. The site is located in the SW $\frac{1}{4}$ of Section 2 and the NW $\frac{1}{4}$ of Section 27, T4N, R10E, of the Clifty Falls USGS Quadrangle; see Figure 2B.

The Esplano Drive water main project is located outside of the city limits. The site is located in the SE $\frac{1}{4}$ of Section 19, T4N, R10E, of the Clifty Falls USGS Quadrangle; see Figure 2C.

III. PROJECT NEED AND PURPOSE

The water lines in the project areas are undersized and in poor structural condition, which leads to inadequate pressure, supply and poor water quality. The project will remedy those problems.

IV. PROJECT DESCRIPTION

The First Street water main project includes the replacement of the 4-inch water main with 2,400 feet of 12-inch water main. This main will tap into an existing 12-inch water main located on Second Street, then travel south on Cragmont Street and then east on First Street to Vine Street, where it will connect to another existing 12-inch water main. At Vernon Street, a

tee and valve will be installed to allow a 6-inch line to run south on Vernon Street. Inter-connections will be made at Mill and Plum Streets to the existing water mains that parallel those streets.

The Dahlem's Neighborhood water main project includes the replacement of a 2-inch galvanized pipe located in the alleyways behind the homes. The replacement line will be placed in the road right-of-way in front of the homes and will be a 6-inch line. The 5,700 feet of 6-inch main will tap into an existing 6-inch main on Taylor Street and will run along Highland Street, Wood Street, Montclair Street, Hendricks Street, Allen Street and 8th Street. 1,100 feet of 3-inch service line will be installed on Branch Street and Williams Street.

The Esplano Drive water main project will replace a 3-inch water main on Esplano Drive with 1,110 feet of 8-inch water line that will connect to a 12-inch water main on Highway 62.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Costs:

a. First Street Water Main	\$272,362
b. Dahlem's Neighborhood Water Main	86,293
c. Esplano Drive Water Main	<u>468,303</u>
Subtotal	826,958
Contingency	<u>82,696</u>
Construction Subtotal	\$909,654

Non-Construction Costs

a. Engineering	\$ 73,097
b. Administration, Legal, etc	<u>112,249</u>
Non-Construction Cost Subtotal	\$185,346

Total Estimated Project Cost \$1,095,000

B. Madison will finance the project with a 20-year loan from the State Revolving Loan Fund (SRF) program at an interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

No Action: The no-action alternative for the water main improvements would require that the water mains in the project areas would continue inadequate operation due to age and condition. Therefore, this alternative was rejected.

Selected Plan: The proposed projects will address the pressure, supply and water quality problems. This is the selected plan.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Undisturbed/Disturbed Land: The proposed water main replacement projects will be constructed on previously disturbed land within the street rights-of-way in the First St. project. In the Dahlem's Neighborhood and Esplano Dr. projects, the lines will be installed within five feet of the streets in land previously disturbed by road and house construction, as well as utility installation.

Structural Resources: (Figures 3A-F): The proposed project will not affect historic sites or districts. The proposed water line work in the Esplano Drive area will not occur within 100 feet of the Higbee Cemetery to the east of the Esplano Drive area. Audible, atmospheric or visual effects will be temporary. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "no historic properties affected."

Wetlands and Surface Water: There are no wetlands near the project areas. There are no stream crossings associated with the projects. The proposed projects will not adversely affect wetlands or surface waters.

100-Year Floodplain: The First St. project is entirely within the 100-year floodplain, but will not affect it; the other two projects are outside the 100-year floodplain.

Groundwater: The proposed projects will not negatively affect a sole source aquifer or other groundwater resources.

Plants and Animals: The proposed projects will not affect endangered plants or animals.

Prime Farmland: Construction of the proposed water main replacement projects will not affect prime/unique farmland.

Air Quality: Air quality will be temporarily affected by construction activities, including vehicle exhaust and dust.

Open Space and Recreational Opportunities: The proposed projects construction and operation will neither create nor destroy open space and recreational opportunities.

The proposed projects will not affect National Natural Landmarks or the Lake Michigan Coastal Management Zone.

B. Indirect Impacts

The city's Preliminary Engineering Report (PER) states: *The City of Madison, through the authority of its zoning laws or other means, will ensure that future development, as well as future supply, storage, distribution or treatment works projects connecting to SRF-funded facilities will not adversely impact archaeological/historical/structural resources, or other sensitive environmental resources. The City will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM and other environmental review authorities.*

C. Comments from Environmental Review Authorities

This assessment serves as the first notice to most authorities, since the projects will occur in streets or disturbed rights-of-way next to streets, and wetlands, wooded areas or other sensitive resources will not be adversely impacted.

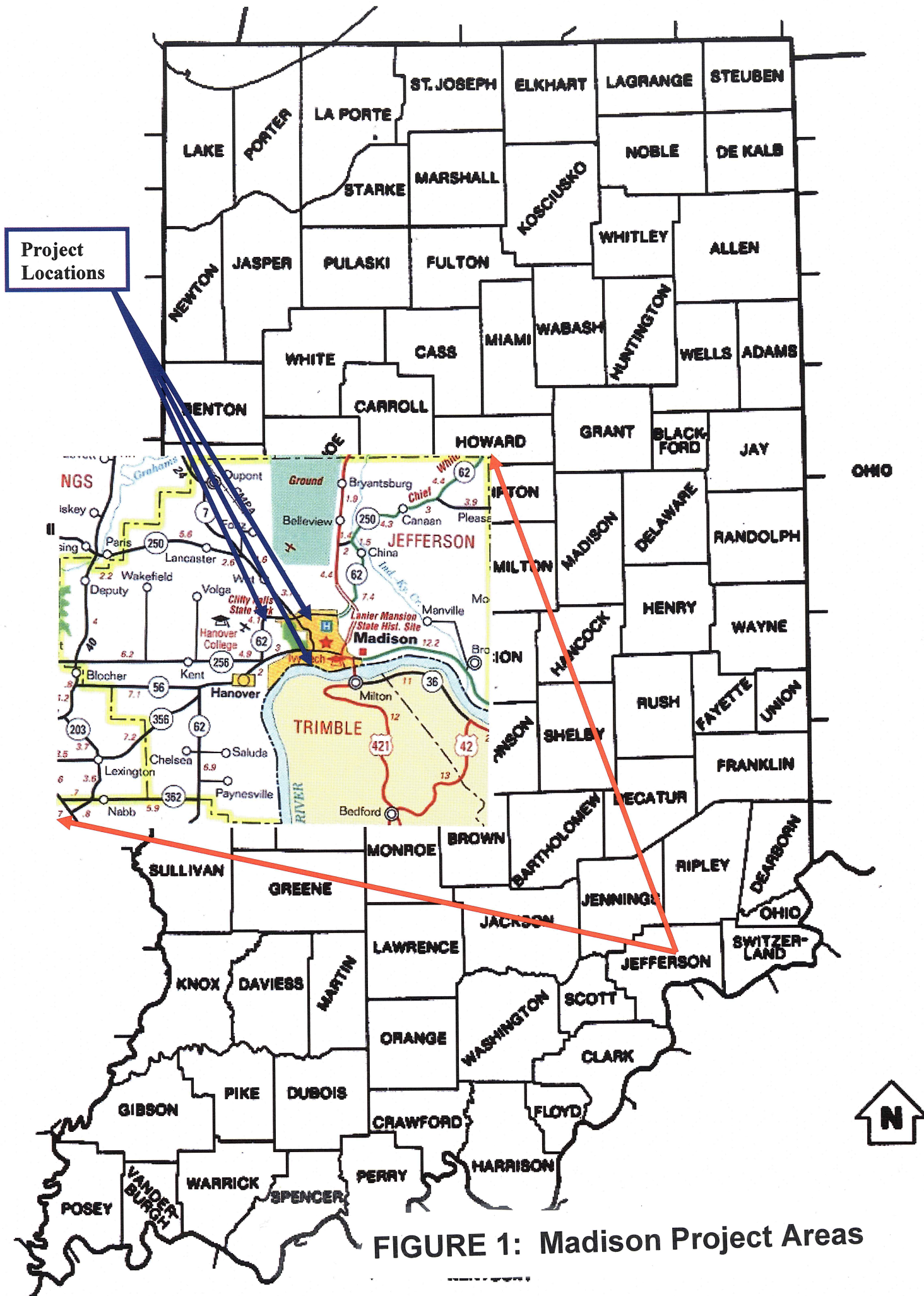
The Natural Resources Conservation Service has determined that the project will not affect prime farmland.

VIII. MITIGATION MEASURES

The city's PER does not list construction mitigation measures. However, the impacts from project implementation will be minimal and temporary.

IX. PUBLIC PARTICIPATION

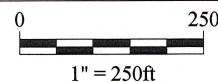
A properly noticed Public Hearing was held on July 30, 2008 at the City Hall. There were no objections to the project at the public hearing. There were no adverse written comments received by the utility during the 5-day comment period following the public hearing.





F P B H, Inc.

Engineers • Surveyors • Planners • Inspectors
 72 Henry Street
 P.O. Box 17
 South Vernon, IN 47265
 Phone: (812) 346-2045
 Fax: (812) 346-8045
 Toll Free: 1-866-2280-2838
 www.fpbhinc.com

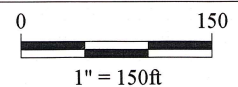


Dahlem's Neighborhood (Figure **2B** Revised November 20, 2008)



Esplano Drive Water Project (Figure 2C Revised October 7, 2008)

 **FPBH, Inc.**
Engineers • Surveyors • Planners • Inspectors
70 Henry Street
P.O. Box 47
North Vernon, IN 47265
Phone: (812) 346-2045
Fax: (812) 346-8045
Toll Free: 1-866-620-3032
www.fpbonline.com



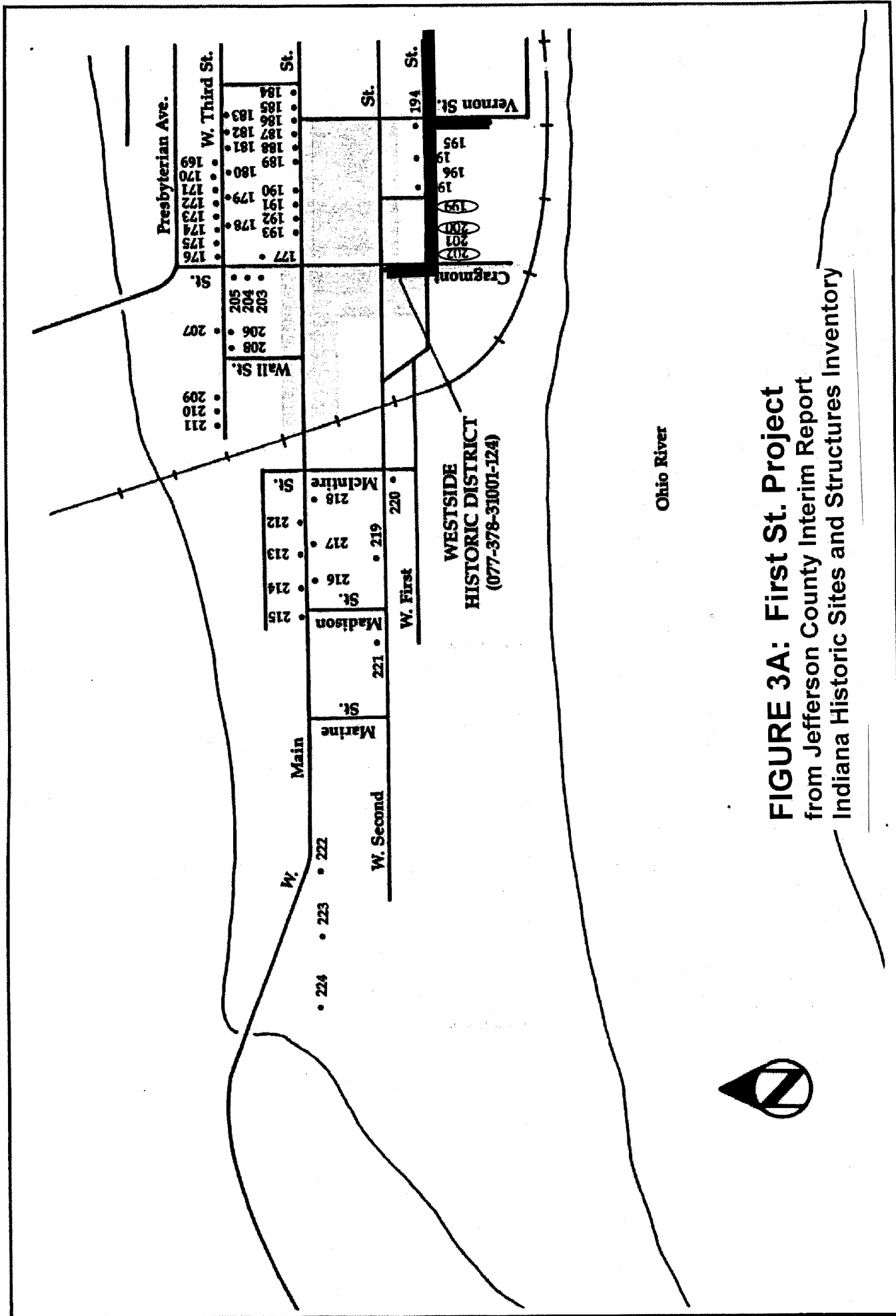


FIGURE 3A: First St. Project
 from Jefferson County Interim Report
 Indiana Historic Sites and Structures Inventory



Westside Historic District (077-78-31001-124)

The Westside Historic District is located on the western edge of Madison. Like the St. Michael's Historic District, this area has been associated traditionally with the town's working class population.

The district's residential architecture consists primarily of vernacular house types. Stretching along West Main Street are lines of shotgun houses (31010-31012, 31016-31018, 31034-31036) all built during the 1860s. These modest homes provided affordable housing for the many workers of westside industries.

One of these industries was the Tower Manufacturing Company. The company's buildings (31091, 31092) were constructed by R. Johnson and Sons in 1884.

Most of the district's earliest architecture is located in the southern section of the area along West Second Street. Typically, these houses are two-story brick row houses such as two houses (31101, 31102) at 919 and 917 West Second Street or I-houses (31101, 31102) also on West Second Street. All four homes were built prior to 1850.

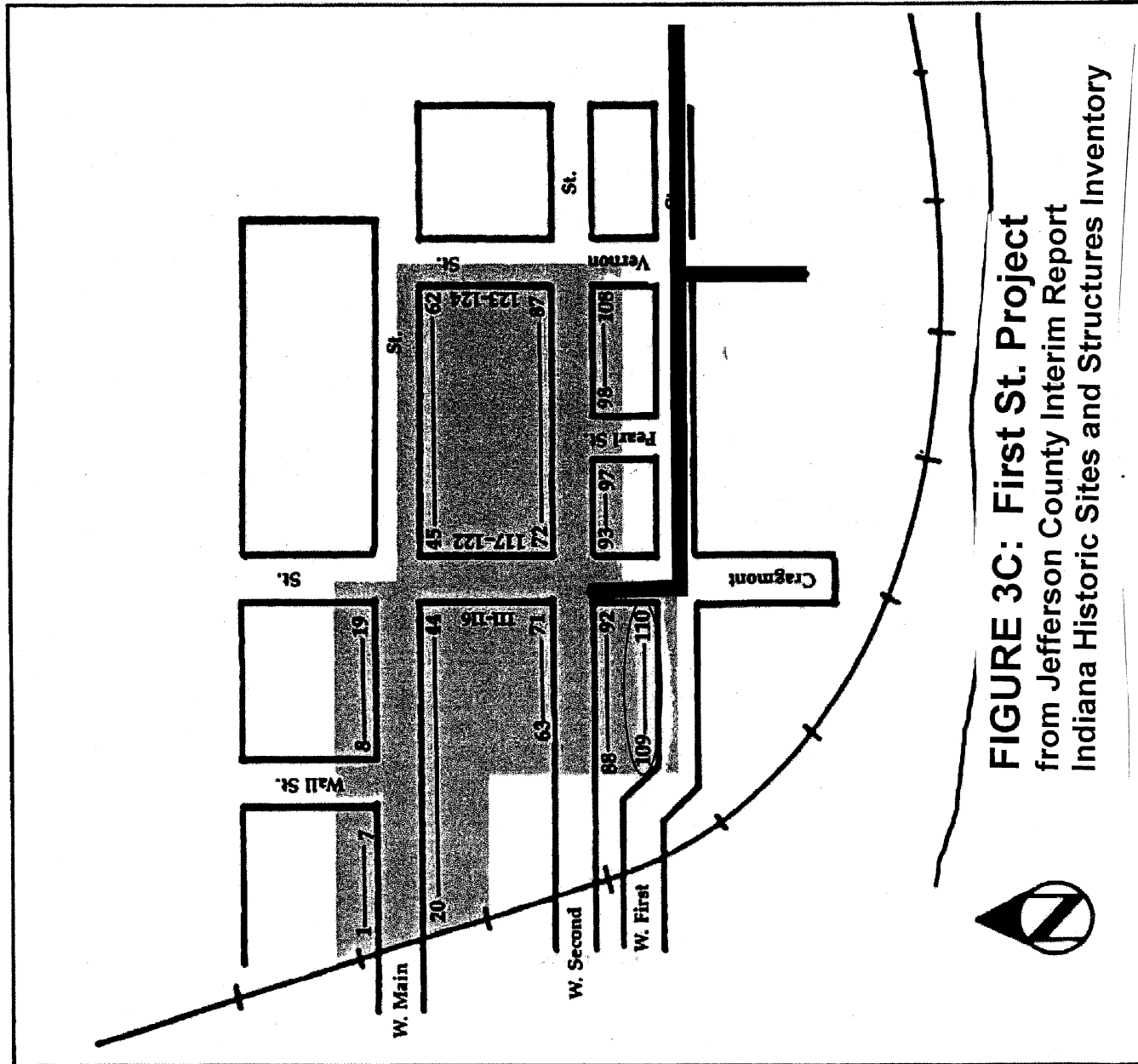


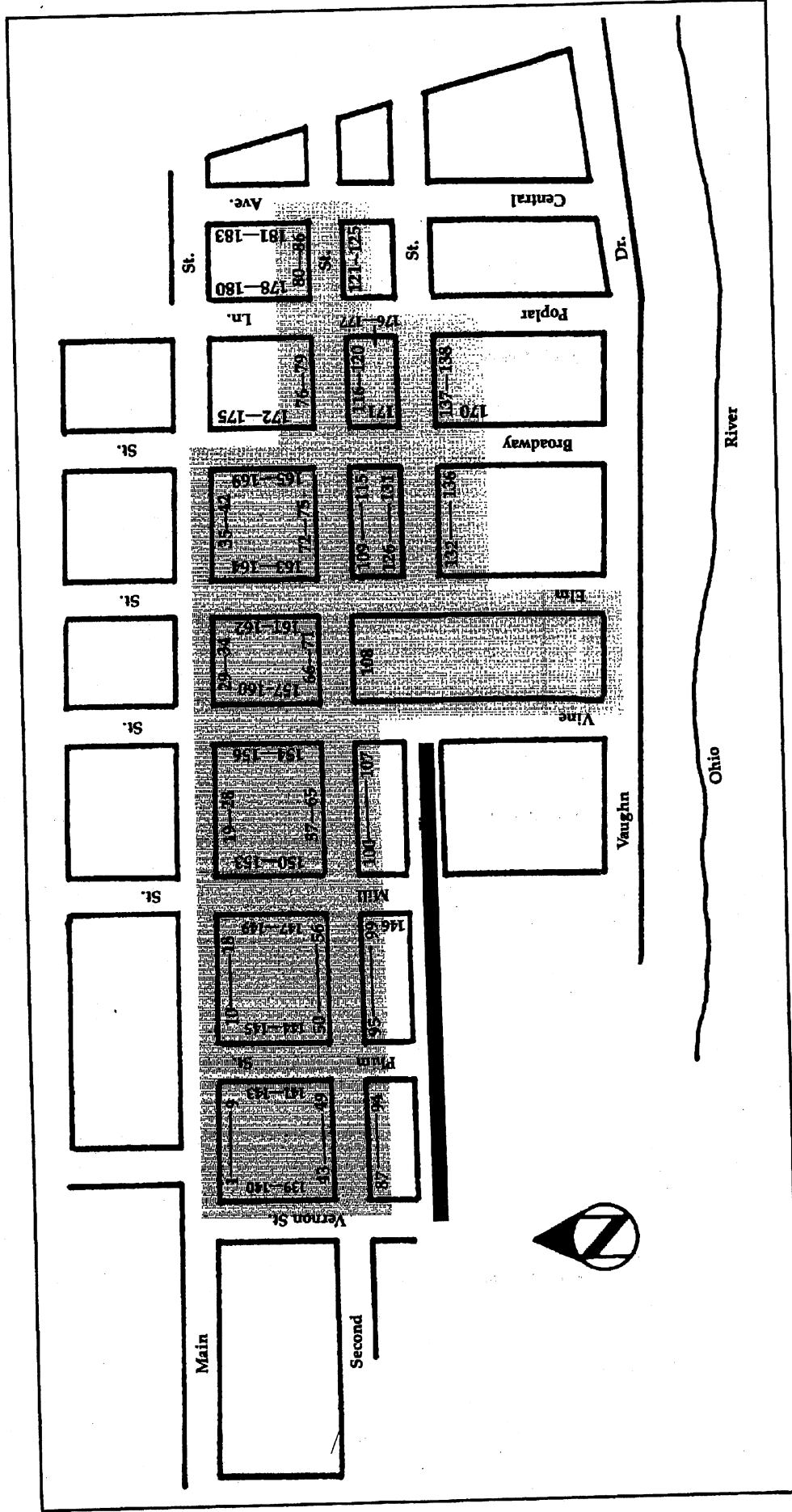
FIGURE 3C: First St. Project
from Jefferson County Interim Report
Indiana Historic Sites and Structures Inventory

No. Add. Description

West Main Street (North Side)

001	954	House; Italianate, c.1850 (C)
002	952	House; Shotgun, c.1860 (C)
003	950	House; Camelback shotgun/Gothic Revival, c.1860 (C)
004	946	House; Gable-front, c.1860/c.1910 (C)
005	944	House; Gable-front/Italianate, c.1860/c.1910 (C)
006	942-940	Duplex; Double-pile/Italianate, c.1860/c.1910 (C)

Lanier Historic District (077-378-27001-183)



The Lanier Historic District is located between Madison's commercial area and the Ohio River. The district includes portions of the First and Second Additions to Madison made in 1815 and 1817 just west of the original plot. It is primarily residential in character and includes some of Madison's most impressive examples of early nineteenth century architecture as well as other later styles.

Three prominent Federal style houses are found in the district. The Jeremiah Sullivan House (27079) was built about 1820 for Jeremiah Sullivan, a lawyer. Sullivan later served as an Indiana State Supreme Court judge, legislator and one of the founders of nearby Hanover College. The house, currently owned by Historic Madison, Inc., is operated as a house museum.

FIGURE 3D: First St. Project
from Jefferson County Interim Report
Indiana Historic Sites and Structures Inventory

Across Second Street from the Sullivan House is the Talbott House (27120). Constructed in several sections, the earliest part of the house dates to about 1818. Richard Talbott, a native of Pennsylvania, came to Madison about 1819. Adjacent to the house is the Talbott-Hyatt Pioneer Garden (27009).

Also adjacent to the Talbott House is the Schofield House (27121). Built in 1818, the house is the site

Madison Scattered Sites (32001-224)

Updated November 20, 2008

Dahlem's Neighborhood

No Sites within Neighborhood

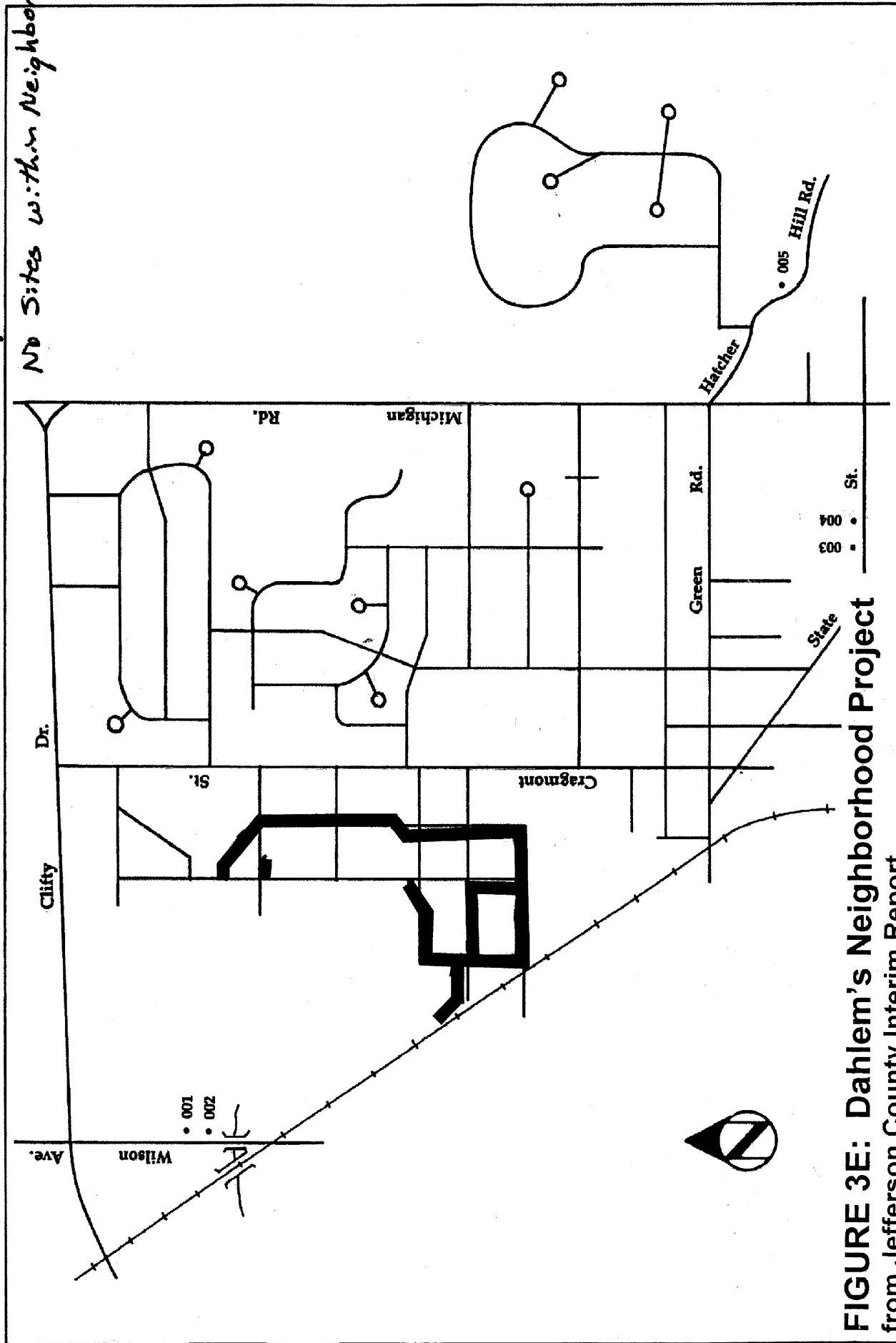


FIGURE 3E: Dahlem's Neighborhood Project
 from Jefferson County Interim Report
 Indiana Historic Sites and Structures Inventory

Madison Township (25001-104)

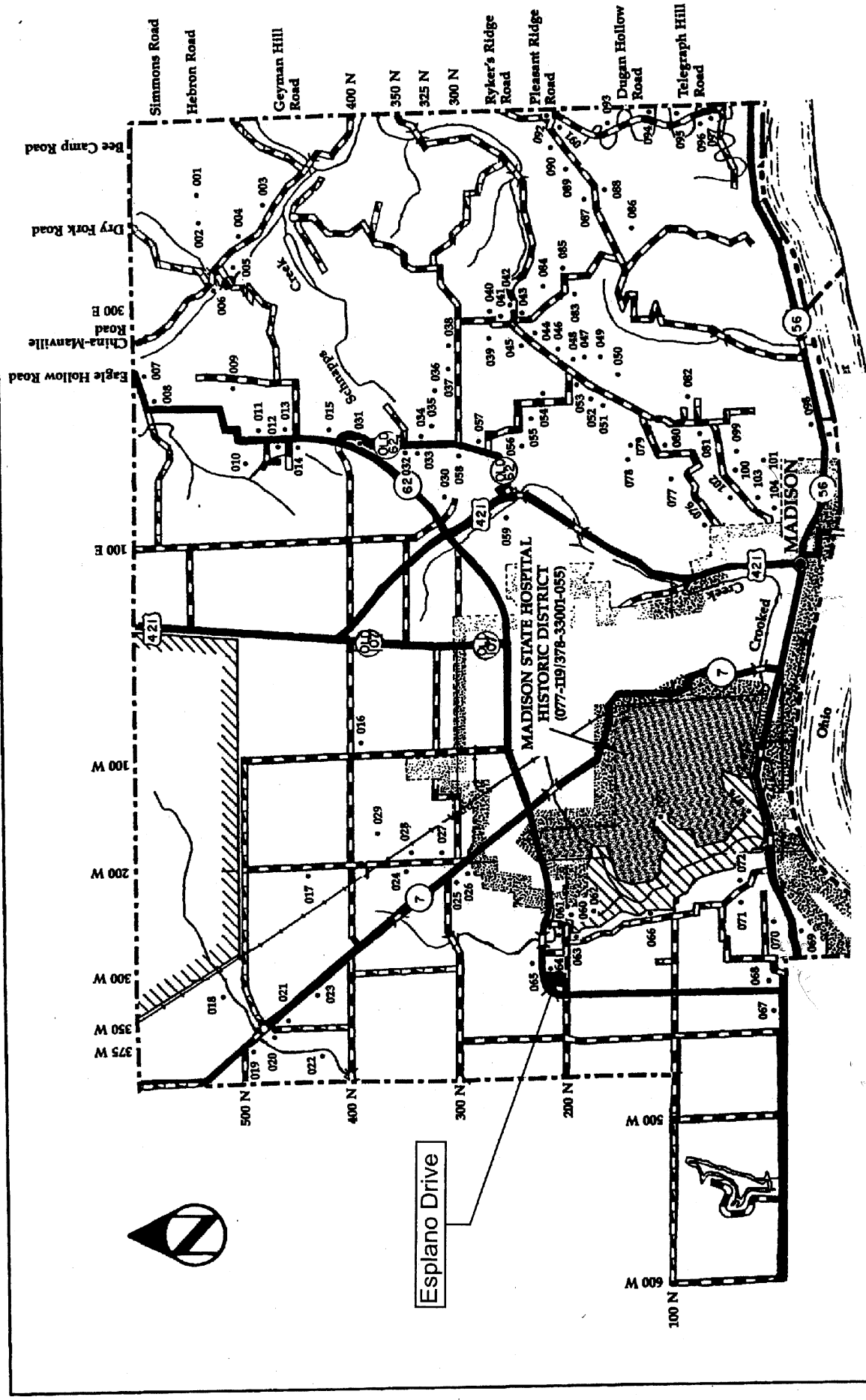


FIGURE 3F: Esplano Drive Project
 from Jefferson County Interim Report
 Indiana Historic Sites and Structures Inventory